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MAIL STOP PATENT EXT.

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: MAIL STOP PATENT EXT., Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:
Date: May 5, 2006 Name: Barbara A. LaBarge Signature: *Barbara A. LaBarge*

DA2
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BRINKS
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GILSON
& LIONE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: Youichi Tanabayashi et al.

Patent No.: 7,010,306

Issued: March 7, 2006

Serial No.: 09/786,818

Filing Date: March 9, 2001

For: LOCATION INFORMATION NOTIFYING
METHOD AND LOCATION INFORMATION
NOTIFYING APPARATUS

Examiner: S. M. D'Agosta

Art Unit: 2683

Attorney Docket No: 9683/82

MAIL STOP PATENT EXT.
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

Sir:

Attached is/are:

- ☒ Request for Reconsideration of Patent Term Adjustment (6 pgs.); copies of Exhibits A through E (35 pgs.); and Transmittal (in duplicate)
- ☒ Return Receipt Postcard

Fee calculation:

- ☒ No additional fee is required.
- ☐ Small Entity.
- ☐ A petition or processing fee in an amount of \$_____ under 37 C.F.R. § 1.17(____).
- ☐ An additional filing fee has been calculated as shown below:

| | | | | | Small Entity | | | Not a Small Entity | |
|---|-------------------------------------|-------|------------------------------------|------------------|--------------|-----------|----|--------------------|-----------|
| | Claims Remaining After Amendment | | Highest No. Previously Paid For | Present Extra | Rate | Add'l Fee | or | Rate | Add'l Fee |
| Total | | Minus | | | x \$25= | | | x \$50= | |
| Indep. | | Minus | | | x 100= | | | x \$200= | |
| First Presentation of Multiple Dep. Claim | | | | | +\$180= | | | + \$360= | |
| | | | | | Total | \$ | | Total | \$ |

Fee payment:

- ☐ A check in the amount of \$_____ is enclosed.
- ☐ Please charge Deposit Account No. 23-1925 in the amount of \$_____. A copy of this Transmittal is enclosed for this purpose.
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925. A copy of this Transmittal is enclosed for this purpose.

May 5, 2006
Date

Respectfully submitted,

Sanders N. Hillis
Sanders N. Hillis (Reg. No. 45,712)



CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: MAIL STOP PATENT EXT., Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:
Date: May 5, 2006 Name: Barbara A. LaBarge Signature: [Signature]

Our Case No. 9683/82

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Youichi Tanibayashi et al)
)
U.S. Patent No. **7,010,306 B1**) Examiner: Stephen M. D'Agosta
)
Issue Date : **March 7, 2006**) Group Art Unit No. **2683**
)
Serial No. **09/786,818**) Confirmation No. **6699**
)
Filing Date: **March 9, 2001**)
)
Title: **LOCATION INFORMATION NOTIFYING**)
 METHOD AND LOCATION)
 INFORMATION NOTIFYING APPARATUS)

REQUEST FOR RECONSIDERATION OF
PATENT TERM ADJUSTMENT
PURSUANT TO 37 C.F.R. § 1.705(d)

Mail Stop Patent Ext.
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

U.S. Patent No. 7,010,306 B1 issued on March 7, 2006. Pursuant to 35 U.S.C. § 154(b) the United States Patent and Trademark Office has calculated a patent term adjustment of 535 days, which is included on the face page of U.S. Patent No. 7,010,306 B1. A copy of the face page of U.S. Patent No. 7,010,306 B1 is included herewith as Exhibit A.

Applicant's Attorney believes that the patent term adjustment should be 1087 days. For the reasons stated herein, reconsideration of the patent term adjustment is respectfully requested

pursuant to 37 C.F.R. 1.705(d). If necessary, please charge the petition fee pursuant to 37 C.F.R. § 1.18(e) to Deposit Account No. 23-1925. However, since the errors in patent term adjustment are believed to be by the U.S. Patent and Trademark Office, Applicant respectfully requests that the petition fee be waived. As detailed on the included Transmittal, please charge any additional fee required or credit any excess fee paid to Deposit Account No. 23-1925. A duplicate copy of the Transmittal is included for this purpose.

The patent term adjustment for U.S. Patent No. 7,010,306 B1 was calculated by the U.S. Patent and Trademark Office based on activities and associated dates detailed in the Patent Application Information Retrieval (PAIR) system Patent Term Adjustment History, attached as Exhibit B. Applicant's Attorney believes that errors and/or omissions in the calculation and/or the PAIR system Patent Term Adjustment History may have resulted in an incorrect patent term adjustment for U.S. Patent No. 7,010,306 B1 as described in detail below. Pursuant to 37 C.F.R. §1.705(d), this request for reconsideration is being filed within two months of the issue date of the above-referenced patent. Note that U.S. Patent No. 7,010,306 B1 is not subject to a terminal disclaimer.

Period of adjustment for activities prior to mailing of Notice of Allowance

As detailed in the Notice of Allowance attached as Exhibit B, the patent term adjustment indicated on the Notice of Allowance was 606 days.

Period of adjustment for activities after the mailing of Notice of Allowance

Period of adjustment pursuant to 37 C.F.R. § 1.703(a)(6)

The period of adjustment pursuant to 37 C.F.R. § 1.703(a)(6) is the number of days in the period beginning on the day (“the 4 month date”) after the date that is four months after the issue fee was paid and all outstanding requirements were satisfied and ending on the date a patent was issued.

The issue fee was filed at the U.S. Patent and Trademark Office on December 27, 2005, as indicated in the Patent Term Adjustment History attached as Exhibit C. The four month date calculated pursuant to 37 C.F.R. § 1.703(a)(6) is April 27, 2006. U.S. Patent No. 7,010,306 B1 issued on March 7, 2006, which is within four (4) months. Thus, no additional term was provided pursuant to 37 C.F.R. § 1.703(a)(6).

Period of adjustment pursuant to 37 C.F.R. § 1.704(c)(10)

37 C.F.R. § 1.704(c)(10) relates to an amendment or other paper filed after a notice of allowance has been give or mailed. The period of adjustment pursuant to 37 C.F.R. § 1.704(c)(10) is the lesser of: 1) the number of days in the period beginning on the day the amendment or other paper was mailed, and ending on the date of an office action or notice in response to the amendment or other paper, or 2) four months.

As detailed in the PAIR system Patent Term Adjustment History attached as Exhibit C, a formal drawing was filed to replace an informal drawing on the same date that the issue fee was paid (December 27, 2005). On January 20, 2006, a Response to 312 Amendment was mailed from the U.S. Patent and Trademark Office resulting in a delay of 25 days by the Applicant pursuant to

37 C.F.R. § 1.704(c)(10). This 25 day delay is indicated in the PAIR system Patent Term Adjustment History attached as Exhibit C. However, the PAIR system Patent Term Adjustment History attached as Exhibit C also indicates a 46 day delay by the Applicant, which appears to represent the period between the mailing date of the Response to 312 Amendment and the issue date of the Patent.

Applicant believes the calculation of the 46 days of Applicant delay to be in error. The formal drawing filed on December 27, 2005 was the only after notice of allowance paper filed in this case. A copy of the formal drawing submittal is attached as Exhibit D. When the Response to 312 Amendment was mailed, pursuant to 37 C.F.R. § 1.704(c)(10), there should have been no additional delay by the Applicant calculated. Accordingly, Applicant's Attorney respectfully requests re-calculation of the patent term adjustment to add the erroneous reduction of 45 days due to Applicant's delay to the existing 535 days of patent term adjustment.

Period of adjustment pursuant to 37 C.F.R. § 1.703(b)

The period of adjustment pursuant to 37 C.F.R. § 1.703(b) is the number of days in the period beginning on the day ("the 3 year date") after the date that is three years after the date on which the application was filed pursuant to 35 U.S.C. § 111(a).

The present application was filed in the U.S. Patent and Trademark Office on March 9, 2001, as evidenced by the official filing receipt attached as Exhibit E. The 3 year date determined pursuant to 37 C.F.R. § 1.703(b) is March 9, 2004. A request for continued examination (RCE) was filed on September 23, 2005, which is 563 days beyond the 3 year date. The 563 days beyond the 3 year date are neither acknowledged nor included in the calculation of patent term adjustment.

Applicant believes this may be an error in the patent term adjustment and respectfully request recalculation of the patent term adjustment to take this additional delay into account.

The recalculation should be based on the delay described in the Patent Term Adjustment History attached as Exhibit C and the additional 563 days of delay due to exceeding the 3 year date as follows. As indicated by the PAIR system Patent Term Adjustment History attached as Exhibit C, the total delay by the U.S. Patent Office was 663 days, and the total delay by the Applicant's Attorney was 128 days. None of the 663 days of delay by the U.S. Patent Office, overlap with the 563 days of delay due to exceeding the 3 year date. 57 days of Applicant's delay overlap with the 563 days of delay due to exceeding the 3 year date. Thus, the non-overlapping period of adjustment pursuant to 37 C.F.R. § 1.703(f) due to exceeding the 3 year date is believed to be $563 \text{ days} - 57 \text{ days} = 506 \text{ days}$. Accordingly, Applicant's Attorney respectfully requests re-calculation of the patent term adjustment to add 506 days to the existing 535 days of patent term adjustment.

Total patent term adjustment

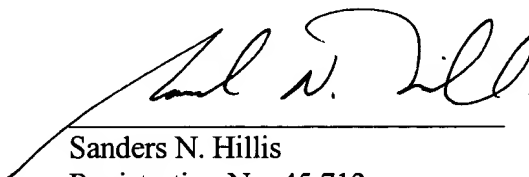
Based on the foregoing, we believe that the correct patent term adjustment for U.S. Patent No. 7,010,306 B1 should be the 535 days currently awarded and an additional 46 days due to the erroneous calculation of Applicant's delay. In addition, we believe that an additional 506 days of delay due to the U.S. Patent and Trademark Office exceeding the 3 year date should also be awarded. Accordingly, we believe the total patent term adjustment for this patent should be $535 \text{ days} + 46 \text{ days} + 506 \text{ days} = 1087 \text{ days}$.

Patent No. 7,010,306
Serial No. 09/786,818

Date Issued: March 7, 2006
Date Filed: July 31, 2001

It is respectfully asserted that the patent term adjustment determined by the U.S. Patent and Trademark Office for U.S. Patent No. 7,010,306 B1 may not be correct. Accordingly, Applicant's Attorney respectfully requests the U.S. Patent and Trademark Office to reconsider, and make revisions to the PAIR system Patent Term Adjustment History in view of the previous remarks to award 1087 days. In addition, it is respectfully requested a Certificate of Correction be issued for U.S. Patent No. 7,010,306 B1 to indicate that 1087 days of patent term adjustment have been awarded. Office personnel are invited to contact Applicant's Attorney via telephone if such communication would be beneficial in fulfilling this request.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Sanders N. Hillis", is written over a horizontal line.

Sanders N. Hillis
Registration No. 45,712
Attorney for Applicants

BRINKS HOFER GILSON & LIONE
CUSTOMER NO. 757
(317) 636-0886

ATTACHMENT A
(1 pgs.)



UNITED STATES PATENT AND TRADEMARK OFFICE

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NOV 3 2005

BRINKS HOFFER

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

757

7590

10/27/2005

BRINKS HOFFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610

EXAMINER

DAGOSTA, STEPHEN M

ART UNIT

PAPER NUMBER

2683

DATE MAILED: 10/27/2005

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/786,818 | 03/09/2001 | Youichi Tanibayashi | 9683/82 | 6699 |

TITLE OF INVENTION: POSITION INFORMATION NOTIFYING METHOD AND POSITION INFORMATION NOTIFYING APPARATUS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$0 | \$1400 | 01/27/2006 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(571) 273-2885**

or **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

757 7590 10/27/2005

**BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/786,818 | 03/09/2001 | Youichi Tanibayashi | 9683/82 | 6699 |

TITLE OF INVENTION: POSITION INFORMATION NOTIFYING METHOD AND POSITION INFORMATION NOTIFYING APPARATUS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$0 | \$1400 | 01/27/2006 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|--------------------|----------|----------------|
| DAGOSTA, STEPHEN M | 2683 | 455-456000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

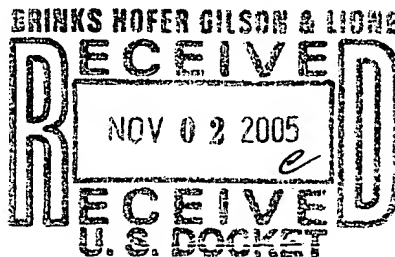


UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/786,818 | 03/09/2001 | Youichi Tanibayashi | 9683/82 | 6699 |

757 7590 10/27/2005
BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610



| EXAMINER | |
|--------------------|--------------|
| DAGOSTA, STEPHEN M | |
| ART UNIT | PAPER NUMBER |
| 2683 | |

DATE MAILED: 10/27/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 606 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 606 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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NOV 3 2005
BRINKS, HOFER,
GILSON & LIONE

Notice of Allowability

Application No.

09/786,818

Examiner

Stephen M. D'Agosta

Applicant(s)

TANIBAYASHI ET AL.

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received 9-23-2005.

2. ☒ The allowed claim(s) is/are 1,3,5-8,10,11,14-25,27,29-32,34-44,46-56,60-62,67-76,79 and 80.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All b) ☐ Some* c) ☐ None of the:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____

7. ☐ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____

RECEIVED

NOV 3 2005

BRINKS, HOFER,
ON ATTORNEY

DETAILED ACTION

Response to Amendment

The applicant's amendment received 9-23-2005 overcomes the primary examiner's prior art rejection. Hence claims 1, 3, 5-8, 10-11, 14-25, 27, 29-32, 34-44, 46-56, 60-62, 67-76 and 79-80 are allowed.

1. The examiner appreciates the applicant's assistance in pointing out the copending application. The examiner has reviewed the copending application and believes it not to be a double patenting issue since the claims contained in this application are much narrower and focused whereas the copending applications are much more broad. The examiner has informed the examiner working the copending application about this case – hence the applicant may receive a double patenting rejection on the copending application (since those claims are broad and can read on these claims).

2. The examiner has reviewed the IDS and concludes that the prior art listed does not read on the allowed claims.

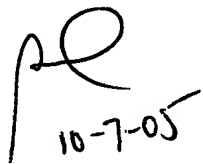
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 571-272-7862. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen D'Agosta
Primary Examiner



10-7-05



| | | |
|---|------------------------------|--|
| FORM PTO-1449 | SERIAL NO. 09/786,818 | CASE NO. 9683/82 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | FILING DATE March 9, 2001 | GROUP ART UNIT 2683 |
| (use several sheets if necessary) | | APPLICANT(S): Youichi Tanibayashi et al. |

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

| REFERENCE DESIGNATION | | | | | | | U.S. PATENT DOCUMENTS | |
|-----------------------|-----|--|---------|-----------------------|--------------------|----------------|-----------------------|--|
| EXAMINER INITIAL | | DOCUMENT NUMBER <small>Number-Kind Code (if known)</small> | DATE | NAME | CLASS/ SUBCLASS | FILING DATE | | |
| MP | C1 | 5,043,736 | 08/1991 | Darnell | 342/357.1 | 07/27/1990 | | |
| | C2 | 5,636,122 | 06/1997 | Shah et al. | 701/207 | 05/17/1995 | | |
| | C3 | 5,652,570 | 07/1997 | Lepkofker | 340/573.4 | 10/16/1995 | | |
| | C4 | 5,873,040 | 02/1999 | Dunn et al. | 455/456.2 | 10/13/1996 | | |
| | C5 | 5,959,577 | 09/1999 | Fan et al. | 342/357.13 | 08/28/1997 | | |
| | C6 | 6,091,956 | 07/2000 | Hollenberg | 455/456.5 | 06/12/1997 | | |
| | C7 | 6,115,611 | 09/2000 | Kimoto et al. | 455/456.3 | 04/24/1997 | | |
| | C8 | 6,122,520 | 09/2000 | Want et al. | 455/456 | 02/13/1998 | | |
| | C9 | 6,169,897 B1 | 01/2001 | Kariya | 455/426 | 04/01/1998 | | |
| | C10 | 6,208,866 B1 | 03/2001 | Rouhollahzadeh et al. | 455/456 | 12/30/1998 | | |
| | C11 | 6,226,522 B1 | 05/2001 | Higuchi | 455/456 | 04/20/1998 | | |
| | C12 | 6,292,743 B1 | 09/2001 | Pu et al. | 701/202 | 01/06/1999 | | |
| | C13 | 6,311,060 B1 | 10/2001 | Evans et al. | 455/426 | 05/21/1998 | | |
| | C14 | 6,332,127 B1 | 12/2001 | Bandera et al. | 705/14 | 01/28/1999 | | |
| | C15 | 6,353,398 B1 | 03/2002 | Amin et al. | 340/995 | 10/22/1999 | | |
| | C16 | 6,377,793 B1 | 04/2002 | Jenkins | 455/412 | 12/06/2000 | | |
| | C17 | 6,381,465 B1 | 04/2002 | Chern et al. | 455/466 | 09/20/1999 | | |
| | C18 | 6,385,465 B1 | 05/2002 | Yoshioka | 455/564 | 10/28/1998 | | |
| | C19 | 6,397,057 B1 | 05/2002 | Malackowski et al. | 455/414 | 12/24/1997 | | |
| | C20 | 6,400,956 B1 | 06/2002 | Richton | 455/456 | 11/15/1999 | | |
| | C21 | 6,505,048 B1 | 01/2003 | Moles et al. | 455/456 | 12/30/1999 | | |
| | C22 | 6,519,466 B2 | 02/2003 | Pande et al. | 455/456 | 02/05/2002 | | |
| | C23 | 2003/0069029 A1 | 04/2003 | Dowling et al. | 455/456 | 11/14/2002 | | |
| | C24 | 6,609,005 B1 | 08/2003 | Chern | 455/457 | 03/28/2000 | | |
| | C25 | 6,677,894 B2 | 01/2004 | Sheynblat et al. | 342/357.1 | 11/30/1998 | | |
| | C26 | 6,732,940 B1 | 05/2004 | Nagendran | 455/456.1 | 04/28/2000 | | |

6,731,940 B1

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER <small>Number-Kind Code (if known)</small> | DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES OR NO |
|------------------|-----|---|------------|---------|--------------------|--------------------------|
| MP | C27 | JP 09-215041 | 08/15/1997 | Japan | H04Q 7/34 | Yes |
| | C28 | JP 07-312774 | 11/28/1995 | Japan | H04Q 7/34 | Yes |
| | C29 | JP 07-105494 | 04/21/1995 | Japan | G08G 1/127 | Yes |
| | C30 | JP 11-53278 | 02/26/1999 | Japan | G06F 13/00 | Yes |
| | C31 | JP 2000-55686 | 02/25/2000 | Japan | G01C 21/00 | Yes |
| | C32 | JP 07-131852 | 05/19/1995 | Japan | H04Q 7/34 | Yes |
| | C33 | JP 08-37682 | 02/06/1996 | Japan | H04Q 7/34 | Yes |
| | C34 | JP 10-164643 | 06/19/1998 | Japan | H04Q 7/34 | Yes |

| | |
|-----------------------------|-------------------------|
| EXAMINER <i>[Signature]</i> | DATE CONSIDERED 10-7-05 |
|-----------------------------|-------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ATTACHMENT C
(2 pgs.)

Patent Term Adjustments

Patent Term Adjustment (PTA) for Application Number: 09/786,818

| | | | |
|------------------------------|------------|--------------------------------------|-----|
| Filing or 371(c) Date: | 03-09-2001 | USPTO Delay (PTO) Delay (days): | 663 |
| Issue Date of Patent: | 03-07-2006 | Three Years: | - |
| Pre-Issue Petitions (days): | +0 | Applicant Delay (APPL) Delay (days): | 128 |
| Post-Issue Petitions (days): | +0 | Total PTA (days): | 535 |
| USPTO Adjustment(days): | +0 | Explanation Of Calculations | |

Patent Term Adjustment History

| Date | Contents Description | PTO(Days) | APPL(Days) |
|------------|---|-----------|------------|
| 02-15-2006 | PTA 36 Months | | |
| 03-07-2006 | Patent Issue Date Used in PTA Calculation | | |
| 01-30-2006 | Dispatch to FDC | | |
| 01-20-2006 | Mail Response to 312 Amendment (PTO-271) | | |
| 01-19-2006 | Response to Amendment under Rule 312 | | |
| 12-27-2005 | Amendment after Notice of Allowance (Rule 312) | | 25 |
| 01-11-2006 | Application Is Considered Ready for Issue | | |
| 12-27-2005 | Workflow - Drawings Finished | | 46 |
| 12-27-2005 | Issue Fee Payment Verified | | ↑ |
| 12-27-2005 | Issue Fee Payment Received | | ↑ |
| 10-27-2005 | Mail Notice of Allowance | | ↑ |
| 10-26-2005 | Notice of Allowance Data Verification Completed | | ↑ |
| 09-23-2005 | Information Disclosure Statement considered | | ↑ |
| 09-23-2005 | Reference capture on IDS | | ↑ |
| 09-23-2005 | Information Disclosure Statement (IDS) Filed | | ↑ |
| 10-06-2005 | Date Forwarded to Examiner | | ↑ |
| 10-06-2005 | Date Forwarded to Examiner | | ↑ |
| 09-23-2005 | Request for Continued Examination (RCE) | | 57 |
| 10-06-2005 | DISPOSAL FOR A RCE/CPA/129 (express abandonment if CPA) | | ↑ |
| 09-23-2005 | Request for Extension of Time - Granted | | ↑ |
| 09-23-2005 | Workflow - Request for RCE - Begin | | ↑ |
| 07-18-2005 | Mail Advisory Action (PTOL - 303) | | ↑ |
| 07-14-2005 | Advisory Action (PTOL-303) | | ↑ |
| 07-06-2005 | Date Forwarded to Examiner | | ↑ |
| 06-28-2005 | Amendment after Final Rejection | | ↑ |
| 04-28-2005 | Mail Final Rejection (PTOL - 326) | | ↑ |
| 04-27-2005 | Final Rejection | | |
| 04-19-2005 | Date Forwarded to Examiner | | |
| 03-22-2005 | Response after Non-Final Action | | |
| 01-04-2005 | Mail Non-Final Rejection | | |
| 01-03-2005 | Non-Final Rejection | | |
| 01-03-2005 | IFW TSS Processing by Tech Center Complete | | |

| | | |
|------------|---|-----|
| 12-19-2004 | Date Forwarded to Examiner | |
| 12-19-2004 | Date Forwarded to Examiner | |
| 09-13-2004 | Request for Continued Examination (RCE) | |
| 12-19-2004 | DISPOSAL FOR A RCE/CPA/129 (express abandonment if CPA) | |
| 09-13-2004 | Workflow incoming amendment IFW | |
| 09-13-2004 | Workflow - Request for RCE - Begin | |
| 06-16-2004 | Mail Final Rejection (PTOL - 326) | |
| 06-14-2004 | Final Rejection | |
| 06-09-2004 | Date Forwarded to Examiner | |
| 06-01-2004 | Response after Non-Final Action | |
| 06-01-2004 | Workflow incoming amendment IFW | |
| 03-02-2004 | Mail Non-Final Rejection | 663 |
| 02-23-2004 | Non-Final Rejection | ↑ |
| 01-02-2004 | Information Disclosure Statement (IDS) Filed | ↑ |
| 09-09-2003 | Case Docketed to Examiner in GAU | ↑ |
| 09-03-2003 | Case Docketed to Examiner in GAU | ↑ |
| 07-16-2003 | Case Docketed to Examiner in GAU | ↑ |
| 02-20-2003 | Case Docketed to Examiner in GAU | ↑ |
| 01-14-2003 | Case Docketed to Examiner in GAU | ↑ |
| 05-03-2001 | Preliminary Amendment | ↑ |
| 05-03-2001 | Information Disclosure Statement (IDS) Filed | ↑ |
| 06-20-2001 | Case Docketed to Examiner in GAU | ↑ |
| 05-18-2001 | Application Dispatched from OIPE | ↑ |
| 05-11-2001 | IFW Scan & PACR Auto Security Review | ↑ |
| 04-30-2001 | Correspondence Address Change | ↑ |
| 04-27-2001 | Released to OIPE | ↑ |
| 04-27-2001 | Notice of DO/EO Acceptance Mailed | ↑ |
| 04-26-2001 | 371 Application Preexamination Docketing | ↑ |
| 03-29-2001 | 371 Application Preexamination Docketing | ↑ |
| 03-09-2001 | Receipt of 371 Request | ↑ |
| 03-29-2001 | Correspondence Address Change | |
| 03-09-2001 | Initial Exam Team nn | |

Close Window

ATTACHMENT D
(25 pgs.)

ATTACHMENT B
(7 pgs.)

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:
 Date: December 22, 2005 Name: Deanna L. Hasler Signature: Deanna L. Hasler

**BRINKS
HOFFER
GILSON
& LIONE**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: **Youichi Tanibayashi et al.**

Appln. No.: **09/786,818**

Filed: **March 9, 2001**

For: **POSITION INFORMATION NOTIFYING
METHOD AND POSITION INFORMATION
NOTIFYING APPARATUS**

Attorney Docket No: **9683/082**

Examiner: **Stephen M.
D'Agosta**

Art Unit: **2683**

Confirmation No. **6699**

MAIL STOP ISSUE FEE
 Commissioner for Patents
 P. O. Box 1450
 Alexandria, VA 22313-1450

TRANSMITTAL

Sir:

Attached is/are:

- ☒ Part B – Fee(s) Transmittal (in duplicate – 2 pgs.); Transmittal of Corrected FIG. 27 w/Exhibits A & B (22 pgs.); Replacement Sheet 23/24 for Corrected Fig. 27 (1 pg.); Transmittal (in duplicate – 2 pgs.)
- ☒ Return Receipt Postcard

Fee calculation:

- ☐ No additional fee is required.
- ☐ Small Entity.
- ☒ The issue fee in the amount of **\$1400.00** under 37 C.F.R. § 1.18(a).
- ☐ An additional filing fee has been calculated as shown below:

| | | | | | Small Entity | | | Not a Small Entity | |
|---|----------------------------------|-------|---------------------------------|---------------|--------------|-----------|----|--------------------|-----------|
| | Claims Remaining After Amendment | | Highest No. Previously Paid For | Present Extra | Rate | Add'l Fee | or | Rate | Add'l Fee |
| Total | | Minus | | | x \$25= | | | x \$50= | |
| Indep. | | Minus | | | x 100= | | | x \$200= | |
| First Presentation of Multiple Dep. Claim | | | | | +\$180= | | | +\$360= | |
| | | | | | Total | \$ | | Total | \$ |

Fee payment:


- ☐ A check in the amount of \$_____ is enclosed.
- ☒ Please charge Deposit Account No. 23-1925 in the amount of \$1400.00 for the issue fee. A copy of this Transmittal is enclosed for this purpose.
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925. A copy of this Transmittal is enclosed for this purpose.

Dec 22, 2005
 Date

Respectfully submitted,
Sanders N. Hillis
 Sanders N. Hillis (Reg. No. 45,712)

Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with
with the United States Postal Service with sufficient postage as
first-class mail in an envelope addressed to: Commissioner for
Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on
December 22, 2005.


Deanna L. Hasler

PATENT
Case No.: 9683/82

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|-------------------------------|---|------------------------------|
| In re Application of |) | |
| |) | Group Art Unit: 2683 |
| Youichi Tanibayashi, et al. |) | |
| |) | Examiner Stephen M. D Agosta |
| Serial No.: 09/786,818 |) | |
| |) | Conf. No. 6699 |
| Filed: March 9, 2001 |) | |
| |) | |
| For: POSITION INFORMATION |) | |
| NOTIFYING METHOD AND POSITION |) | |
| INFORMATION NOTIFYING |) | |
| APPARATUS |) | |

TRANSMITTAL OF CORRECTED FIG. 27

MAIL STOP ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

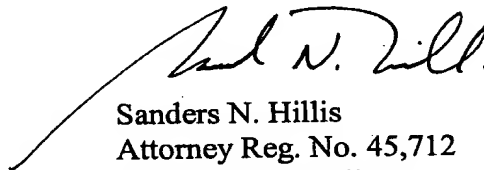
In the Office Action mailed March 2, 2004 (a copy of which is enclosed as Exhibit A),
at page 2 of the Detailed Action, under Drawings, the Examiner approved the corrections to
FIG. 27 (Drawing Sheet 23/24) as presented on the annotated FIG. 27 submitted with the
Preliminary Amendment filed May 1, 2001 (a copy of which is enclosed as Exhibit B).
However, upon a review of the record, Applicant notes that a replacement Drawing Sheet
23/24 for FIG. 27 incorporating the proposed amendments was not submitted.

Serial No. 09/786,818
Transmittal of Corrected Drawing Sheet 23/24 for FIG. 27

Filed: March 9, 2001

Applicants therefore transmit herewith the "replacement sheet" 23/24 for FIG. 27,
incorporating the proposed amendments.

Respectfully submitted,



Sanders N. Hillis
Attorney Reg. No. 45,712
Attorney for Applicant

SNH/dlh

Enclosures

Exhibit A Office Action mailed March 2, 2004 (11 pgs.)
Exhibit B Preliminary Amendment Filed May 1, 2001 (9 pgs.)
Replacement Sheet 23/24 for FIG. 27 (1 pg.)

BRINKS HOFER GILSON & LIONE

CUSTOMER NO. 00757

Telephone: 317-636-0886

Facsimile: 317-634-6701

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(571) 273-2885**

or **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

757 7590 10/27/2005

**BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610**

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| | |
|--------------------------|--------------------|
| Deanna L. Hasler | (Depositor's name) |
| <i>Deanna L. Hasler</i> | (Signature) |
| December 22, 2005 | (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/786,818 | 03/09/2001 | Youichi Tanibayashi | 9683/82 | 6699 |

TITLE OF INVENTION: POSITION INFORMATION NOTIFYING METHOD AND POSITION INFORMATION NOTIFYING APPARATUS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$0 | \$1400 | 01/27/2006 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|--------------------|----------|----------------|
| DAGOSTA, STEPHEN M | 2683 | 455-456000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Brinks Hofer Gilson
& Lione
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

NTT DOCOMO, INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Tokyo, JAPAN

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 23-1925 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Sanders N. Hillis
Typed or printed name **Sanders N. Hillis**

Date

Dec 22, 2005

Registration No.

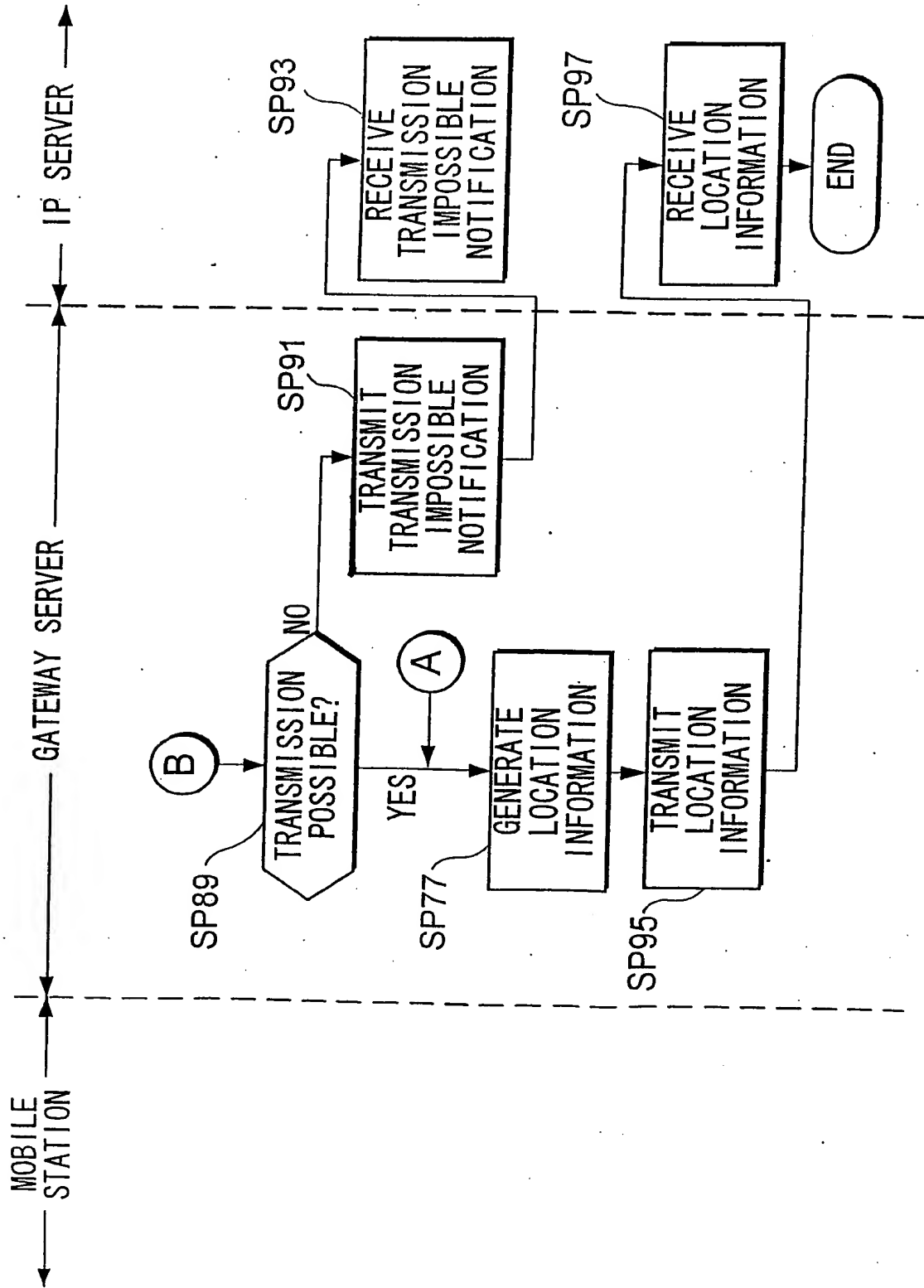
45,712

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

23/24

FIG. 27



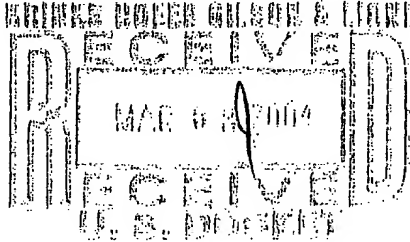


UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/786,818 | 03/09/2001 | Youichi Tanibayashi | 9683/82 | 6699 |

757 7590 03/02/2004
GENERAL NUMBER 00757
BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60611



EXAMINER

D AGOSTA, STEPHEN M

ART UNIT PAPER NUMBER

2683

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/786,818

Applicant(s)

TANIBAYASHI ET AL.

Examiner

Stephen M. D'Agosta

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-56 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-8,11,12,15-27,29-32,35-44 and 47-56 is/are rejected.
- 7) ☒ Claim(s) 4, 9-10, 13-14, 28, 33-34 and 45-46 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5, 8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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DETAILED ACTION

Drawings

The drawings were received on 5-3-01. This (one) drawing is a correction an original and is approved by the examiner.

Specification

The abstract of the disclosure is objected to because of minor errors:

1. Part numbers are not required
2. The phrase "80A, 80B, ..." should be deleted in two places.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 29-56 rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The claims recite third and fourth "location information notifying units" without describing/defining a first, second or third unit which would be critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The examiner interprets these as different embodiments of the invention and not as 3 or 4 separate units that are required for the operation of the invention. Hence claim 31, for example, while describing a third unit is interpreted as having only one unit and not three distinct units (same for claim 43 regarding a fourth unit).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5-8, 11, 12, 15-27, 29-32, 35-44 and 47-56 rejected under 35

U.S.C. 103(a) as being unpatentable over Hashimoto, and further in view of Tell et al.

US 5,774,802 and Cox et al. US 6,580,904 (hereafter Hashimoto, Tell, Cox).

As per claims 1, 5, 7, 11, 25, 29, 31 and 43, Hashimoto teaches a location transmittal method for transmitting to a predetermined computer of location information of a mobile communication terminal obtained on a mobile communication network which contains mobile communication terminals capable of wireless communication (title, abstract), said computer to which said location information is transmitted to a plurality of computers including a first computer capable of handling said location information in a first representational format (figure 1, #32 and claim 3, page 46), said location information notifying method comprising:

a location information generating step of detecting the position of said mobile communication terminal and generating the location information thereof (figure 1, #10 is central system and #26/#27 are position providing units);

a location information converting step wherein, in the event of transmitting said location information to said first computer, said location information is converted from an original representational format into said first representational format, and in the event of making notification of location information to said second computer, said location information is converted from said original representational format into said second representational format (abstract and figure 2 teach multiple means for determining location and page 7, L21 to page 12, L6) and

capable of handling said location information in a second representational format (Abstract teaches position determination via several methods including GPS, PHS terminal locations, radio markers and district maps AND transmitting data to Central System via Radio or PHS formats [see link between remote #11 and #23 or #24 which infers two different communications formats]). The examiner interprets the invention's ability of determining location via several methods as reading on different formats since GPS would yield LAT/LONGs while PHS terminal locations, radio markers or a map would yield a different format – Hashimoto teaches LAT/LONG, Compass Heading, Position Heading and/or use of a physical map, see figures 3-4 for "Map", and figure 9a,

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#2 and figure 9b, #2/#3 for LAT/LONG and Compass/Position) and a second computer (see claim 12, page 48 teaches a "third party" which reads on a second computer) **but is silent on**

a location information notifying step of notifying said computers of said location information with the representational format thereof converted.

Tell teaches location determination whereby the location cache also supports a subscription service, allowing applications to subscribe for automatic notification of detected location changes for any particular subscriber. The subscription service is useful for real time applications such as Fleet Management (C4, L21-34). **Cox** teaches a different embodiment whereby a directory assistance agent can locate a user (abstract) and send them directions in multiple formats based on said location (C3, L66 to C4, L11).

With further regard to claim 5, Hashimoto's invention teaches multiple ways to determine an exact position of the user to certain degrees (radio markers being the most precise, GPS LAT/LONG being less precise) which reads on providing location data with a needed precision (see page 8, L21 to page 9, L3).

With further regard to claim 7 and 32, Hashimoto teaches the wireless device determining location and transmitting the data to the Central System (abstract, figure 1 and page 10, L15-20). Receivers are inherent in RF systems.

With further regard to claim 11, Hashimoto teaches a home terminal (figure 1, #32) that can receive position data which reads on use of a "request signal" (page 11, L11-16 as does an "information offer" described on page 11, L17 to page 12, L6).

With further regard to claim 29, 31, 43, Hashimoto's teaching of a Central System (figure 1, #10) is interpreted by the examiner as a second location information unit since it provides data to the home terminal #32. The mobile unit is the first location unit since it can determine its own position.

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that notification is supported, to provide automatic location updates to a monitoring site.

As per claims 2 and 26, Hashimoto teaches Claim 1/25, wherein said mobile communication network comprises a plurality of mobile communication networks including a first mobile communication network and a second mobile communication network with differing representational formats for location information generated thereby; wherein said location information generating step generates, on one hand, the location information of a mobile communication terminal belonging to said first mobile communication network in a third representational format, and, on the other hand generates the location information of a mobile communication terminal belonging to said second mobile communication network in a fourth representational format; AND wherein, in the event of notifying said location information of said mobile communication terminal belonging to said first mobile communication network to said computers, said location information is converted in said location information converting step from said third representational format into a representational format which said computers are capable of handling, and on the other hand, in the event of notifying said location

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information of said mobile communication terminal belonging to said second mobile communication network to said computers, said location information is converted in said location information converting step converts from said fourth representational format into a representational format which said computers are capable of handling (abstract and figure 1 show that position can be determined/represented in multiple ways and there are at least two different communication links between the mobile #11 and Central System #10 which reads on third, fourth, etc. methods, formats and computers, also see page 7, L21 to page 12, L6).

As per claims 3, 6, 27 and 30, Hashimoto teaches claim 1/5/25/29, wherein said first and said second representational formats are one of:

- a format representing latitude and longitude information (figure 9a, #2 and #3);
- a format representing an administrative district (abstract teaches a map is used for a specific district).

As per claim 8, Hashimoto teaches a location information notifying method according to Claim 7, wherein said location information notifying step includes:

- method of said location information from said computer, and notifying said generated location information after said notified adding method (page 10, L15-20 teaches providing position data (eg. notifying) to the Central System.

But is silent on a step of notifying to said mobile communication terminal the adding.

Tell teaches location determination whereby the location cache also supports a subscription service, allowing applications to subscribe for automatic notification of detected location changes for any particular subscriber. The subscription service is useful for real time applications such as Fleet Management (C4, L21-34).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that notification is supported, to provide automatic location updates to a monitoring site.

As per claims 12 and 44, Hashimoto teaches claim 11/43, further comprising:

an identification information adding step of adding identification information of said mobile communication terminal to said data transmitted from said mobile communication terminal to said computer (page 26, L13-22 teaches use of an ID), and transmitting to said computer;

wherein said location information generating step determines the mobile communication terminal for which said location information to be generated and generates said location information, based on said identification information contained in said request signal from said computer (page 26 L13 to page 27, L6 teaches use of ID to locate another and would be used for the present mobile as well).

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As per claims 21, 41 and 53, Hashimoto teaches either Claim 7 or 11/31/43, further comprising:

an input screen and/or buttons (figures 10a, 10c and 10d have input screens/buttons) transmitting step of transmitting input screen data for inputting to said mobile communication terminal specified location information which the user of said mobile communication terminal can specify (page 43, L4-11 teaches using screen/buttons for inputting/controlling navigation services); and

a specified location information receiving step of receiving from said mobile communication terminal said specified location information input by said user (figure 4 describes process of requesting/acquiring position);

wherein said location information notifying step notifies said computer of said specified location information received in said specified location information receiving step, along with said location information generated in said location information generating step (figure 4 shows acquiring position based on request).

As per claims 22, 42 and 54, Hashimoto teaches either Claim 7 or 11/31/43, wherein said mobile communication terminal comprises position measuring means for measuring its own position (abstract, figure 1);

wherein said location information method comprises a measured location information receiving step of receiving from said mobile said mobile communication terminal and generating the location information thereof (figures 2 and 4, figure 1, #10 is central system and #26/#27 are position providing units);

a location information representational format converting unit which (figure 1, #32 and claim 3, page 46), in the event of transmitting said location information to said first computer, converts said location information from said representational format which is generated into said first representational format, and in the event of notifying said location information to said second computer, said location information is converted from said generated representational format into said second representational format (Abstract teaches position determination via several methods including GPS, PHS terminal locations, radio markers and district maps AND transmitting data to Central System via Radio or PHS formats [see link between remote #11 and #23 or #24 which infers two different communications formats]). The examiner interprets the invention's ability of determining location via several methods as reading on different formats since GPS would yield LAT/LONGs while PHS terminal locations, radio markers or a map would yield a different format – Hashimoto teaches LAT/LONG, Compass Heading, Position Heading and/or use of a physical map, see figures 3-4 for "Map", and figure 9a, #2 and figure 9b, #2/#3 for LAT/LONG and Compass/Position) and a second computer (see claim 12, page 48 teaches a "third party" which reads on a second computer); and

but is silent on a first location information notifying unit for notifying said computer of said location information with the representational format thereof converted.

Tell teaches location determination whereby the location cache also supports a subscription service, allowing applications to subscribe for automatic notification of detected location changes for any particular subscriber. The subscription service is useful for real time applications such as Fleet Management (C4, L21-33).

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It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that notification is supported, to provide automatic location updates to a monitoring site.

As per claims 23 and 55, Hashimoto teaches either claims 1, 5, 7 or 11/25, 29, 31 or 43 wherein said computer is an information providing server for providing said mobile unit with position related information relating to the position of said mobile terminal (figure 1, both the mobile, #11 or the Central System computer #10 can provide location data).

As per claims 24 and 56, Hashimoto teaches either claims 1, 5, 7, 11/25, 29, 31 or 43 wherein said mobile unit is a cell phone (figure 1 shows a cellular network and figures 10c-d show a cell phone, see page 42, L18-20).

Claims 15-20, 35-40 and 47-52 rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto/Tell/Cox and further in view of Kingdon et al. US 6,138,003 (hereafter Kingdon).

As per claims 15, 35 and 47, Hashimoto teaches claim 7 or 11/31/43 **but is silent** on further comprising:

a notification permission/non-permission determining step of determining whether or not said location information may be notified to said computer;

wherein said location information notifying step notifies said location information based on the determination result in said notification permission/non-permission determining step.

Kingdon teaches A telecommunications system and method is disclosed which performs authorization checks prior to allowing a location service to position a mobile terminal within a cellular network. The various checks involve ensuring that the requesting agency has authorization to request positioning of mobile terminals, determining whether positioning of mobile terminals is allowed within the cellular network that the mobile terminal is currently located in, verifying the authenticity of the identity of the mobile positioning center, ascertaining whether the mobile subscriber has allowed the requesting agency to position the mobile terminal, and confirming that all relevant criteria for positioning have been met by both the mobile subscriber and the requesting agency (abstract and C1, L13 to C2, L18).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that location is not transmitted unless authorized, to provide security measures to allow only authorized users to receive location data.

As per claims 16, 36 and 48, Hashimoto teaches claim 15/35/47, **but is silent on** wherein disclosure information regarding whether or not a computer is to have said location information disclosed thereto is stored in predetermined storing means beforehand;

and wherein said notification permission/non-permission determining step makes said determination by referring to said disclosure information stored by said storing means with regard to said computer which is to have said location information disclosed thereto.

Kingdon teaches performing authorization checks prior to allowing a location service to position a mobile terminal within a cellular network. The various checks involve ensuring that the requesting agency has authorization to request positioning of mobile terminals, determining whether positioning of mobile terminals is allowed within the cellular network that the mobile terminal is currently located in, verifying the authenticity of the identity of the mobile positioning center, ascertaining whether the mobile subscriber has allowed the requesting agency to position the mobile terminal, and confirming that all relevant criteria for positioning have been met by both the mobile subscriber and the requesting agency (abstract and figures 4-5 inherently require data to be stored/accessed to perform authorization).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that permissions are stored beforehand, to provide means for the system to check a database/storage area for speedy authorization.

As per claims 17, 37 and 49, Hashimoto teaches Claim 16/36/48 **but is silent on** wherein said disclosure information is stored in said predetermined storing means beforehand for each mobile communication terminal;

and wherein said notification permission/non-permission determining step makes said determination by referring to said disclosure information stored by said storing means with regard to said computer which is to have said location information disclosed thereto.

Kingdon teaches authorization checks prior to allowing a location service to position a mobile terminal within a cellular network. The various checks involve ensuring that the requesting agency has authorization to request positioning of mobile terminals, determining whether positioning of mobile terminals is allowed within the cellular network that the mobile terminal is currently located in, verifying the authenticity of the identity of the mobile positioning center, ascertaining whether the mobile subscriber has allowed the requesting agency to position the mobile terminal, and confirming that all relevant criteria for positioning have been met by both the mobile subscriber and the requesting agency. The examiner interprets that various part of the above process will be stored before hand in order for the process to operate correctly/efficiently (eg. a user would require beforehand who can/cannot contact them).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that notification is supported, to provide automatic location updates to a monitoring site.

As per claims 18, 38 and 50, Hashimoto teaches Claim 15/35/47, **but is silent on** wherein said notification permission/non-permission determining step comprises:
a step of making an inquiry to said mobile communication terminal regarding whether or not said location information may be notified to said computer; and
a step of making said determination based on response information from said mobile communication terminal to said inquiry.

Kingdon teaches authorization checks prior to allowing a location service to position a mobile terminal within a cellular network (abstract). The examiner interprets either a central controller (or mobile) as providing the authorization.

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that an inquiry to a mobile/computer occurs, to provide means for the mobile (or computer) to authorize whether its location should be divulged or not.

As per claims 19, 39 and 51, Hashimoto teaches Claim 15/35/47 **but is silent on** wherein terminal information, relating to whether or not said location information may be disclosed outside of said mobile communication network with regard to a mobile communication terminal, is stored in predetermined storage means beforehand;
and wherein said notification permission/non-permission determining step makes said determination by referring to terminal information stored in said storage means with regard to said mobile communication terminal relating to said location information of which notification is to be made.

Kingdon teaches authorization checks prior to allowing a location service to position a mobile terminal within a cellular network. The various checks involve ensuring that the requesting agency has authorization to request positioning of mobile terminals and determining whether positioning of mobile terminals is allowed within the cellular network that the mobile terminal is currently located in which reads on the claim (abstract).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that storing beforehand whether location should be disclosed outside of the mobile network, to provide quick lookup for authorizing whether a unit's location should be provided to anyone (inside/outside the network).

As per claims 20, 40 and 52, Hashimoto teaches Claim 15/35/47 **but is silent on** further comprising an error signal transmitting step of, in the event that it has been determined that transmission is not permissible in said notification permission/non-permission determination step, transmitting a transmission error signal to said mobile communication terminal or said computer to the effect that said location information may not be notified.

Kingdon teaches authorization checks prior to allowing a location service to position a mobile terminal within a cellular network (abstract) that transmits a "denial message" (eg. error signal) if location determination is not permitted (figure 3, #320).

It would have been obvious to one skilled in the art at the time of the invention to modify Hashimoto, such that an error message is transmitted, to provide feedback that authorization is/is not granted to a requestor.

Allowable Subject Matter

Claims 4, 9-10, 13-14, 28, 33-34 and 45-46 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 4 and 28 define formats for BTS's, wireless zones, partial wireless zones and LAT/LONG which are not disclosed based on their dependent claim limitations.

Claims 9-10, 13-14, 33-34 and 45-46 disclose use of predetermined data sequences within transmitted data that are substituted for with location data.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. :

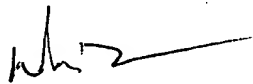
1. Hillman et al. US 6,522,265.
2. Chen et al. US 6,496,701

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 703-306-5426. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist on 703-306-0377.

SMD



WILLIAM TROST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

| TRANSMITTAL LETTER | | | Case No. 9683/82 |
|--|------------------------------|----------------------------|----------------------------------|
| Serial No. 09/786,818 | Filing Date March 9, 2001 | Examiner To be assigned | Group Art Unit To be assigned |
| Inventor(s) Youichi Tanibayashi et al. | | | |
| Title of Invention POSITION INFORMATION NOTIFYING METHOD AND POSITION INFORMATION NOTIFYING APPARATUS | | | |

TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is Transmittal Letter (in duplicate); Preliminary Amendment; Information Disclosure Statement (in duplicate); Form PTO-1449; Copies of Thirty-six (36) Cited References (A1-A36); English Translations of References A9-A27 and A29-A36; International Search Report; Return Postcard.

- ☐ Small entity status of this application under 37 CFR § 1.27 has been established by verified statement previously submitted.
- ☐ A verified statement to establish small entity status under 37 CFR §§ 1.9 and 1.27 is enclosed.
- ☐ Petition for a _____ month extension of time.
- ☒ No additional fee is required.
- ☐ The fee has been calculated as shown below:

| | Claims Remaining After Amendment | | Highest No. Previously Paid For | Present Extra |
|---|----------------------------------|-------|---------------------------------|---------------|
| Total | | Minus | | |
| Indep. | | Minus | | |
| First Presentation of Multiple Dep. Claim | | | | |

| Small Entity | |
|-----------------|-----------|
| Rate | Add'l Fee |
| x \$9 = | |
| x 40 = | |
| + \$135 = | |
| Total add'l fee | \$ |

| Other Than Small Entity | |
|-------------------------|-----------|
| Rate | Add'l Fee |
| x \$18 = | |
| x \$80 = | |
| + \$270 = | |
| Total add'l fee | \$ |

or

- ☐ Please charge Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE) in the amount of \$_____. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$_____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
- ☒ I hereby petition under 37 CFR § 1.136(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Gregory Zarja
 Gregory W. Zarja
 Registration No. 48,059
 Agent for Applicants

BRINKS HOFER GILSON & LIONE
 P.O. BOX 10395
 CHICAGO, ILLINOIS 60610
 (312) 321-4200

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on May 1, 2001.

Date May 1, 2001 Signature Gregory Zarja

Commissioner for Patents
Washington, D.C. 20231
on May 1, 2001

Gregory H. Zayia – Reg. No. 48,059

Registered Representative
Gregory Zayas
Signature

Signature

Date of Signature

On page 1, please replace the title with:

-- LOCATION INFORMATION NOTIFYING METHOD AND LOCATION
INFORMATION NOTIFYING APPARATUS--

On page 9, please replace the first full paragraph (ll. 9-18) with:

--Reference numeral 40 denotes a gateway server, which relays data communications between the mobile packet communication network 32 and the Internet 70 or other external networks. This gateway server 40 is provided with a data relay unit 40a for handling the above data communication relaying and a location information providing unit 40b (first location information notifying unit) for notifying location information of the above-described cellular telephones 10, 20, and 30 to computers such as IP (Information Provider) servers 80A, 80B, etc., connected to the Internet 70. This location information providing unit 40b is provided with a latitude and longitude receiver list table which is described herein below.--

On page 11, please replace the second full paragraph (ll. 7-19) with:

--Reference numeral 60 denotes a location information converting device (first location information representation converting unit) which performs conversion of the location information. This location information converting device 60 converts the location information of the cellular telephones 10, 20, and 30 obtained from the networks 12, 22, and 32 with differing representational formats into location information with a representational format which can be handled by the computers such as the IP servers 80A, 80B, etc., connected to the Internet 70, based on a location information conversion table described herein below. Due to this location information converting device 60, the computers requesting location information can receive supply of location information of the cellular telephones 10, 20, and 30, without taking the difference in representational format into consideration.--

On page 23, please replace the first two full paragraphs beneath the section heading (1) (i.e., ll. 2-22) with:

--Fig. 10 is a block diagram illustrating the overall configuration of a network relating to the second embodiment. In this figure, the configurations which are the same as those in the above-described first embodiment will be denoted with the same reference numerals, and the description thereof will be omitted. The second embodiment differs from the first embodiment with regard to the functions of the position

measurement center 51 (second location information generating unit), location information converting device 61 (second location information representation converting unit), and location information providing unit 40c (second location information notifying unit), and description will be made below accordingly.

As described above, the position measurement center 51 correlates the identification information of the cellular telephone 30 and the sector ID of the service area where the cellular telephone 30 exists, and stores this in the sector ID table 50c. Further, the position measurement center 51 obtains the area ID of the service area where the cellular telephone 30 exists, and correlates the identification information of the cellular telephone 30 with the area ID of the service area where the cellular telephone 30 exists, and stores the correlation in the area ID table 50b. Obtaining of this area ID is performed by correlating each sector ID and area ID of service areas containing the sector IDs beforehand.--

On page 25, please replace the fourth full paragraph (ll. 20-25) with:

--In the event that location information is to be provided to a computer listed in this location information precision table, the location information providing unit 40c specifies one of the precisions, high-precision through low-precision, held in a manner correlated with the computer, and orders the location information converting device 61 to perform location information conversion.--

On page 36, please replace the fourth full paragraph (ll. 21-23) with:

--As shown in Fig. 17, sub-menu items include, for example, "restaurant information", "movie theater information", "museum information", "registration of tracking information provision", and so forth.--

On page 47, please replace the second full paragraph (ll. 14-20) with:

--In step SP39, the IP server 500A activates a position related information application in response to the received request signal. Then, position related information (restaurant information) corresponding to the location information (CODE001) received from the gateway server 320 is obtained from the position related information database 510A, and the above position related information is transmitted via the Internet 400 to the mobile station 100 based on the mobile station ID contained in the request signal.--

On page 66, please replace section heading (7) (i.e., ll. 11-12) with:

--(7) Types of mobile communication terminal serving as location information disclosure standards--

IN THE DRAWINGS

In accord with 37 CFR § 1.121(d), Applicants submit herewith for the approval of the Examiner an amended copy of drawing sheet 23/24. Upon approval by the Examiner, Applicants will submit a new drawing sheet 23/24 incorporating the proposed amendments, which is in compliance with 37 CFR § 1.84.

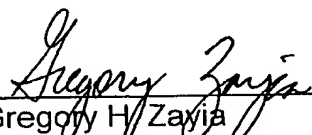
SUPPORT FOR AMENDMENT

The amendments to the specification and drawings were made to correct typographical errors and for clarification. No new matter has been added.

REMARKS

The changes to the specification introduced by the present amendment relative to the original version are shown in Appendix A (attached herewith), wherein bracketing is used to identify deleted material and underlining is used to identify added material. Applicants submit that the application is now ready for examination on the merits.

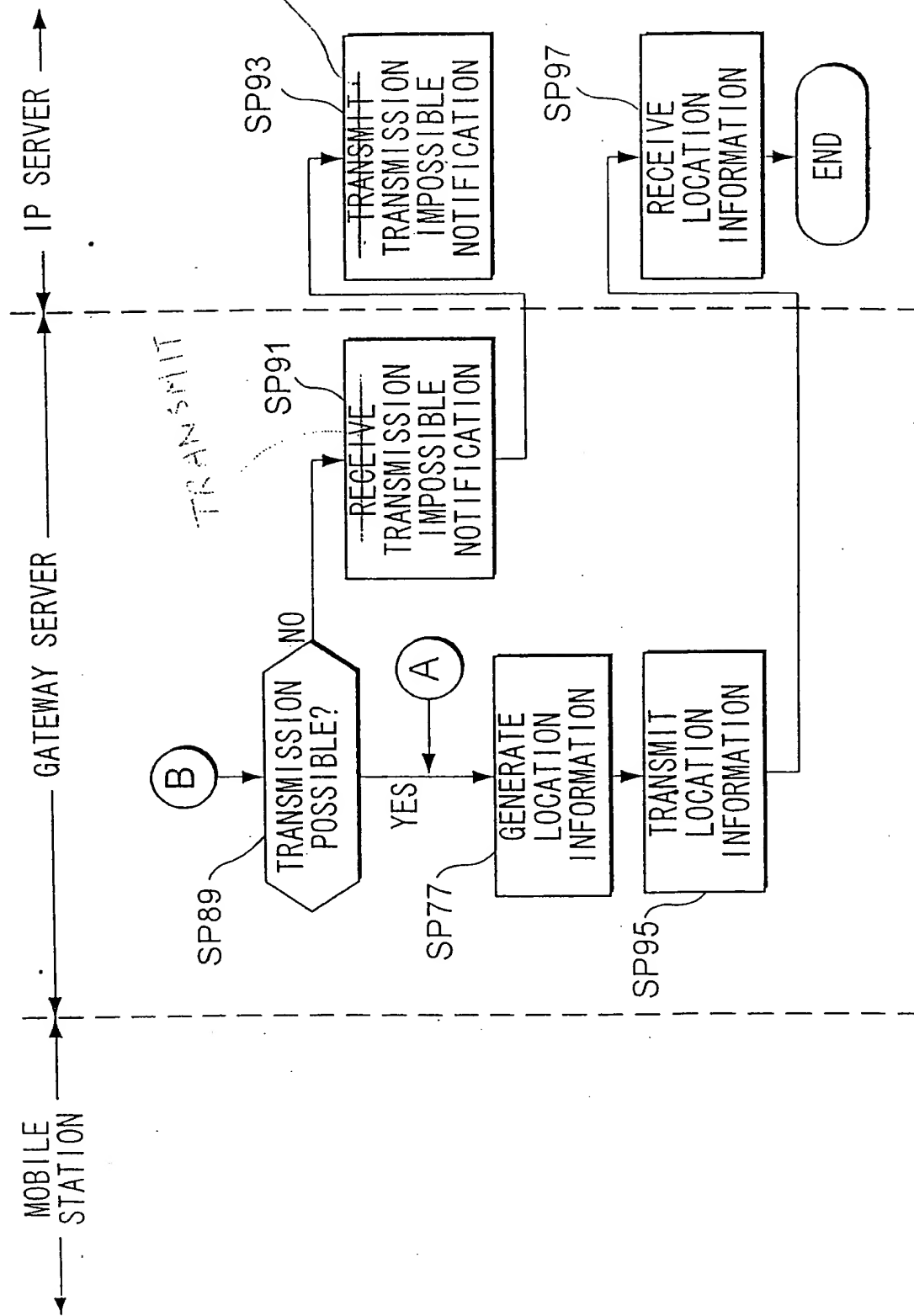
Respectfully submitted,



Gregory H. Zayia
Registration No. 48,059
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FIG. 27



APPENDIX A

Amendment to page 1, title:

--[POSITION] LOCATION INFORMATION NOTIFYING METHOD AND
[POSITION] LOCATION INFORMATION NOTIFYING APPARATUS--

Amendment to page 9, ll. 9-18:

--Reference numeral 40 denotes a gateway server, which relays data communications between the mobile packet communication network [30] 32 and the Internet 70 or other external networks. This gateway server 40 is provided with a data relay unit 40a for handling the above data communication relaying and a location information providing unit 40b (first location information notifying unit) for notifying location information of the above-described cellular telephones 10, 20, and 30 to computers such as IP (Information Provider) servers 80A, 80B, etc., connected to the Internet 70. This location information providing unit 40b is provided with a latitude and longitude receiver list table which is described herein below.--

Amendment to page 11, ll. 7-19:

--Reference numeral 60 denotes a location information converting device (first location information representation converting unit) which performs conversion of the location information. This location information converting device 60 converts the location information of the cellular telephones 10, 20, and 30 obtained from the networks 12, 22, and 32 with differing representational formats into location information with a representational format which can be handled by the computers such as the IP servers 80A, 80B, etc., connected to the Internet 70, based on a location information conversion table described herein below. Due to this location information converting device 60, the computers requesting location information can receive supply of location information of the cellular telephones 10, 20, and 30, without taking the difference in representational format into consideration.--

Amendments to page 23, ll. 2-22:

--Fig. 10 is a block diagram illustrating the overall configuration of a network relating to the second embodiment. In this figure, the configurations which are the same as those in the above-described first embodiment will be denoted with the same

reference numerals, and the description thereof will be omitted. The second embodiment differs from the first embodiment with regard to the functions of the position measurement center 51 (second location information generating unit), location information converting device 61 (second location information [generating] representation converting unit), and location information providing unit 40c (second location information notifying unit), and description will be made below accordingly.

As described above, the position measurement center 51 correlates the identification information of the cellular telephone 30 and the sector ID of the service area where the cellular telephone 30 exists, and stores this in the sector ID table 50c. Further, the position measurement center 51 obtains the area ID of the service area where the cellular telephone 30 exists, and correlates the identification information of the cellular telephone 30 with the area ID of the service area where the cellular telephone 30 exists, and stores the correlation in the area ID table 50b. Obtaining of this area ID is performed by correlating each sector ID and area ID of service areas containing the sector IDs beforehand.--

Amendment to page 25, ll. 20-25:

--In the event that location information is to be provided to a computer listed in this location information precision table, the location information providing unit 40c specifies one of the precisions, high-precision through low-precision, held in a manner correlated with the computer, and orders the location information converting device [60] 61 to perform location information conversion.--

Amendment to page 36, ll. 21-23:

--As shown in Fig. [11] 17, sub-menu items include, for example, "restaurant information", "movie theater information", "museum information", "registration of tracking information provision", and so forth.--

Amendment to page 47, ll. 14-20:

--In step [SP37] SP39, the IP server 500A activates a position related information application in response to the received request signal. Then, position related information (restaurant information) corresponding to the location information (CODE001) received from the gateway server 320 is obtained from the position related information database 510A, and the above position related information is transmitted via

the Internet 400 to the mobile station 100 based on the mobile station ID contained in the request signal.--

Amendment to page 66, ll. 11-12:

--(7) Types of [information] mobile communication terminal serving as location information disclosure standards--

ATTACHMENT E
(3 pgs.)



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Title

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